Please add the following claims:

--60. A purified DNA, wherein the DNA has the formula:

ATGTTTGACTGTATGGATGTTCTGTCAGTGAGTCCTGGGCAAATCCTGGATTTCTACACTGCGAGT CCGTCTTCCTGCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTCAGTGGATTGACCCAAACCGAA TGGCAGCATCGGCACACTGCTCAATCAATTGAAACACAGAGCACCAGCTCTGAGGAACTCGTCCCA AGCCCCCATCTCCACTTCCTCCCCCTCGAGTGTACAAACCCTGCTTCGTCTGCCAGGACAAATCA TCAGGGTACCACTATGGGGTCAGCGCCTGTGAGGGATGTAAGGGCTTTTTCCGCAGAAGTATTCAGA AGAATATGATTTACACTTGTCACCGAGATAAGAACTGTGTTATTAATAAAGTCACCAGGAATCGAT GCCAATACTGTCGACTCCAGAAGTGCTTTGAAGTGGGAATGTCCAAAGAATCTGTCAGGAATGACA GGAACAAGAAAAGAAGGAGACTTCGAAGCAAGAATGCACAGAGAGCTATGAAATGACAGCTGAGT GTAAATACACCACGAATTCCAGTGCTGACCATCGAGTCCGACTGGACCTGGGCCTCTGGGACAAAT TCAGTGAACTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTTGCTAAACGTCTGCCTGGTTTCA GAATTTGCACCAGGTATACCCCAGAACAAGACACCATGACTTTCTCAGACGGCCTTACCCTAAATC A SECTION OF THE SECT TECTGCCTTTGGAAATGGATGACACAGAAACAGGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAG ACCGCCAGGACCTTGAGGAACCGACAAAAGTAGATAAGCTACAAGAACCATTGCTGGAAGCACTAA Marie the committee of the second of the sec AAATTTATATCAGAAAAAGACGACCCAGCAAGCCTCACATGTTTCCAAAGATCTTAATGAAAATCA 1986年8月1日 - 1986年 - 1987年 - 19 CAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGTAATTACCTTGAAAAATGGAAATTCCTG Cartina Cartin GATCAATGCCACCTCTCATTCAAGAAATGATGGAGAATTCTGAAGGACATGAACCCTTGACCCCAA GTTCAAGTGGGAACACAGCAGAGCACAGTCCTAGCATCTCACCCAGCTCAGTGGAAAACAGTGGGG TCAGTCAGTCACCACTCGTGCAATAA.

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. 2 61. DNA as claimed in claim 60, which is free of human serum proteins, viral proteins, and nucleotide sequences encoding said proteins.

3 62. DNA as claimed in claim 60, which is free of human tissue.

DNA comprising a radionuclide bonded to the DNA of claim 80.

5.4. A hybrid duplex molecule comprising the DNA of claim & hydrogen bonded to nucleotides of complementary base sequence.

6 68. Hybrid duplex molecule as claimed in claim 64, wherein said nucleotides are DNA.

8 %6. Hybrid duplex molecule as claimed in claim 64, wherein said nucleotides are RNA.

7 64. Hybrid duplex molecule as claimed in claim 65, wherein a radionuclide label is bonded to said DNA.

9 68. A recombinant vector comprising lambda-NM1149 having an EcoRI restriction endonuclease site into which has been inserted DNA as claimed in claim 60.

/O 69. An \underline{E} . \underline{coli} bacterial culture in a purified form, wherein the culture comprises \underline{E} . \underline{coli} cells containing a plasmid, wherein a portion of said plasmid contains DNA as claimed in claim \underline{b} 0.

// 70. Bacterial culture as claimed in claim 69, wherein said cells are comprised of \underline{E} . \underline{coli} strain TG-1.

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- 3 -

· /9 71. Plasmid pCOD20.

12 72. A hybridization process comprising contacting under hybridization conditions a polynucleotide with the DNA as claimed in any one of claims 60-62.

13 73. Process as claimed in claim 72, wherein said polynucleotide is DNA.

polynucleotide is identified by Southern blot technique.

15 75. Process as claimed in claim 72, wherein said polynucleotide is RNA.

16 76. Process as claimed in claim 28, wherein said polynucleotide is identified by Northern blot technique.

77. Process as claimed in claim 72, wherein said process comprises the step of detecting a label bonded to said DNA claimed in claim 1.

/8 78. Process as claimed in claim 27, wherein said label is a radionuclide.

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20 79. A purified DNA coding on expression in a unicellular host for a polypeptide having the sequence:

MetPheAspCysMetAspValLeuSerValSerProGlyGlnIleLeuAspPheTyrThrAla SerProSerSerCysMetLeuGlnGluLysAlaLeuLysAlaCysPheSerGlyLeuThrGln ThrGluTrpGlnHisArgHisThrAlaGlnSerIleGluThrGlnSerThrSerSerGluGlu LeuValProSerProProSerProLeuProProProArqValTyrLysProCysPheValCys GlnAspLysSerSerGlyTyrHisTyrGlyValSerAlaCysGluGlyCysLysGlyPhePhe ArgArgSerIleGlnLysAsnMetIleTyrThrCysHisArgAspLysAsnCysValIleAsn LysValThrArqAsnArqCysGlnTyrCysArqLeuGlnLysCysPheGluValGlyMetSer LysGluSerValArgAsnAspArgAsnLysLysLysGluThrSerLysGlnGluCysThr GluSerTyrGluMetThrAlaGluLeuAspAspLeuThrGluLysIleArqLysAlaHisGln GluThrPheProSerLeuCysGlnLeuGlyLysTyrThrThrAsnSerSerAlaAspHisArg ValArgLeuAspLeuGlyLeuTrpAspLysPheSerGluLeuAlaThrLysCysIleIleLys IleValGluPheAlaLysArgLeuProGlyPheThrGlyLeuThrIleAlaAspGlnIleThrLeuLeuLysAlaAlaCysLeuAspIleLeuIleLeuArgIleCysThrArgTyrThrProGlu GlnAspThrMetThrPheSerAspGlyLeuThrLeuAsnArgThrGlnMetHisAsnAlaGly ${\tt PheGlyProLeuThrAspLeuValPheThrPheAlaAsnGlnLeuLeuProLeuGluMetAsp}$ ${\tt AspThrGluThrGlyLeuLeuSerAlaIleCysLeuIleCysGlyAspArgGlnAspLeuGlu}$ GluProThrLysValAspLysLeuGlnGluProLeuLeuGluAlaLeuLysIleTyrIleArg LysArgArgProSerLysProHisMetPheProLysIleLeuMetLysIleThrAspLeuArg SerIleSerAlaLysGlyAlaGluArgValIleThrLeuLysMetGluIleProGlySerMet ProProLeuIleGlnGluMetMetGluAsnSerGluGlyHisGluProLeuThrProSerSer ${\tt SerGlyAsnThrAlaGluHisSerProSerIleSerProSerSerValGluAsnSerGlyVal}$ SerGlnSerProLeuValGln.

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- \cdot 2/ 80. DNA selected from the group consisting of:
 - (a) GTCAGGAATGACAGGAACAAGAAAAAGAAGGAGACTTCGAAGCAAGAATGC;
 - (b) GCTGAGTTGGAGATCTCACAGAGAAGATCCGA;
 - (c) GGGGTCAGTCAGTCACCACTCGTGCAA;
 - (d) AATGACAGGAACAAGAAAAAGAAGGAGACT;
 - (e) ATCTTTGACTGTATGGATGTTCTGTCAGTGAGTCCTGGGCAAATCCTGGATTT
 CTACACTGCGAGTCCGTCTTCCTGCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTC
 AGTGGATTGACCCAAACCGAATGGCAGCATCGGCACACTGCTCAATCA; and
 - (f) CATGAACCCTTGACCCCAAGTTCAAGTGGGAACACAGCAGAGCACAGTCCTAG
 CATCTCACCCAGCTCAGTGGAAAACAGTGGGGTCAGTCACCACTCGTGCAA.
- 22 %1. DNA as claimed in claim %0, wherein the DNA is sequence
- (a).
- 23 82. DNA as claimed in claim 80, wherein the DNA is sequence
- (b).
- 24 83. DNA as claimed in claim 80, wherein the DNA is sequence
- (c).
- 25 84. DNA as claimed in claim 80, wherein the DNA is sequence
- (d).
- 26 85. DNA as claimed in claim 80, wherein the DNA is sequence
- (e).
- 27 26. DNA as claimed in claim 20, wherein the DNA is sequence
- (f).

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28 %1. A hybridization process comprising contacting under hybridization conditions a polynucleotide with the DNA as claimed in any one of claims 19-80.

29 %8. Plasmid pPROHAP.

30 89. A purified DNA of the formula:

CCCATGC

GAGCTGTTTGAGGACTGGGATGCCGAGAACGCGAGCGATCCGAGCAGGGTTTGTCTGGGCACCGT
ATGTTTGACTGTATGGATGTTCTGTCAGTGAGTCCTGGGCAAATCCTGGATTTCTACACTGCGAGT

GTCTTCCTGCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTCAGTGGATTGACCCAAACCGAATG GCAGCATCGGCACACTGCTCAATCAATTGAAACACAGAGCACCAGCTCTGAGGAACTCGTCCCAAG CCCCCATCTCCACTTCCTCCCCCTCGAGTGTACAAACCCTGCTTCGTCTGCCAGGACAAATCATC AGGGTACCACTATGGGGTCAGCGCCTGTGAGGGATGTAAGGGCTTTTTCCGCAGAAGTATTCAGAAG CAATACTGTCGACTCCAGAAGTGCTTTGAAGTGGGAATGTCCAAAGAATCTGTCAGGAATGACAGG AACAAGAAAAAGAAGGAGACTTCGAAGCAAGAATGCACAGAGAGCTATGAAATGACAGCTGAGTT CACGATCTCACAGAGAAGATCCGAAAAGCTCACCAGGAAACTTTCCCTTCACTCTGCCAGCTGGGT AAATACACCACGAATTCCAGTGCTGACCATCGAGTCCGACTGGACCTGGGCCTCTGGGACAAATTd AGTGAACTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTTGCTAAACGTCTGCCTGGTTTCACT ATTTGCACCAGGTATACCCCAGAACAAGACACCATGACTTTCTCAGACGGCCTTACCCTAAATCGA ACTCAGATGCACAATGCTGGATTTGGTCCTCTGACTGACCTTGTGTTCACCTTTGCCAACCAGCTC CTGCCTTTGGAAATGGATGACACAGAAACAGGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAGAC CGCCAGGACCTTGAGGAACCGACAAAAGTAGATAAGCTACAAGAACCATTGCTGGAAGCACTAAAA ATTTATATCAGAAAAAGACGACCCAGCAAGCCTCACATGTTTCCAAAGATCTTAATGAAAATCACA GATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGTAATTACCTTGAAAATGGAAATTCCTGGA TCAATGCCACCTCTCATTCAAGAAATGATGGAGAATTCTGAAGGACATGAACCCTTGACCCCAAGT TCAAGTGGGAACACAGCAGAGCACAGTCCTAGCATCTCACCCAGCTCAGTGGAAAACAGTGGGGTC AGTCAGTCACCACTCGTGCAATAA,

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·3/ 90. DNA as claimed in claim 89, which is free of human serum proteins, viral proteins, and nucleotide sequences encoding said proteins.

32 91. DNA as claimed in claim 89, which is free of human tissue.

33 92. DNA comprising a radionucleotide bonded to the DNA of claim 89.

34 93. A hybrid duplex molecule comprising the DNA of claim 89 hydrogen bonded to nucleotides of complementary base sequence.

35 94. Hybrid duplex molecule as claimed in claim 93, wherein said nucleotides are DNA.

76.95. Hybrid duplex molecule as claimed in claim 93, wherein said nucleotides are RNA.

37 %. Hybrid duplex molecule as claimed in claim 93, wherein a radionuclide label is bonded to said DNA.

38 97. An \underline{E} . \underline{coli} bacterial culture in a purified form, wherein the culture comprises \underline{E} . \underline{coli} cells containing a plasmid, wherein a portion of said plasmid comprises DNA as claimed in claim 89.

39 98. Bacterial culture as claimed in claim 91, wherein said cells are comprised of E. coli strain DH5 α F'.--

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REMARKS

Reconsideration of this application is respectfully requested.

The pending claims have been cancelled, and claims 60-98 have been added to the application. The new claims are derived from the previously pending claims as follows:

NEW	CLAIM	PREVIOUSLY	PENDING CLAIM
6	0		1
6	1		2
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6		1	11
6	5	1	12
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7	0	3	34
7	1	3	32
7	2	2	24
7	3	2	25
7	4	2	26
7	5	2	27
7	6	2	28

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